



NIAID *Council News*

NIAID SCIENTIFIC PROGRAMS

This listing shows where NIAID's scientific programs are administered. It is not inclusive; call the appropriate NIAID staff person for additional information (for contacts go to this document on the Web at <http://www.niaid.nih.gov/ncn/sup.htm>).

DIVISION OF AIDS

go to **DAIT**

go to **DMID**

go to **DEA**

DAIDS supports research of the pathogenesis, natural history, and transmission of HIV and HIV disease and promotes progress in its detection, treatment, and prevention.

Basic Sciences Program

Supports basic and applied research of the causes, diagnosis, and prevention of HIV infection and AIDS.

Targeted Interventions Branch

Research areas

targeted drug discovery emphasizing novel therapeutic approaches, including gene therapy, immune restoration, and novel vaccine designs

Pathogenesis Branch

Research areas

molecular and cellular biology, virology, and immunology of virus-host interactions

mechanisms of immunopathogenesis

HIV transmission

Epidemiology Branch

Research areas

population-based research of HIV transmission and associated biological, behavioral, and environmental factors

correlation between immunologic and virologic events and clinical outcome

trends in natural history

Vaccine and Prevention Research Program

Supports the development of vaccines and other biomedical and behavioral interventions to prevent AIDS.

Preclinical Research Branch

Research areas

preclinical development and evaluation of HIV vaccines

novel vaccine concepts

genetic and immunologic variation

mucosal immunity in SIV, HIV, and SHIV models

delivery methods

adjuvants

correlates of immune protection

Clinical Development Branch

Research areas

coordination of phase I and II clinical trials of potential AIDS vaccines

coordination of mucosal immunology groups characterizing immune responses in HIV-infected and uninfected vaccinated people and primates

Efficacy Trials Branch

Research areas

studies cohorts to prepare for and conduct large domestic and international clinical trials of HIV vaccines and other biomedical and behavioral interventions

Therapeutics Research Program

Develops and oversees research and development of therapies for HIV disease, including OIs and cancers, in adults, infants, children, and adolescents.

Drug Development and Clinical Sciences Branch

preclinical development of experimental therapies

maintenance of a database of potential anti-HIV and -OI compounds

immunologic, virologic, and pharmacologic research related to the design and conduct of clinical trials

HIV Research Branch

clinical research of strategies to treat adult primary HIV infection and neurologic complications

strategies to augment HIV-specific immune responses and general host immunity

Opportunistic Infections Research Branch

preclinical and clinical research to develop better therapies for treating and preventing HIV OIs

Pediatric Medicine Branch

HIV therapies in children and adolescents

strategies to reduce transmission from mother to infant or fetus

Clinical Site Management Branch

management of grants and contracts supporting clinical trials sites

Coordinating Centers Branch

management of grants and contracts supporting biostatistical data management, information systems, laboratory specimen tracking, site monitoring, and operational support of clinical trials networks

SPECIAL RESOURCES

AIDS Research and Reference Reagent Program

makes reagents and characterized specimens available to AIDS researchers; yearly catalogue and newsletter

contact: Dr. Opendra Sharma
301/496-9041

Pharmacokinetic Assays

available to support preclinical development of AIDS therapies

contact: Dr. Chuck Litterst
301/496-0636

Primate Evaluations of HIV/AIDS Vaccines and Therapeutics

available to support preclinical development of vaccines, transmission blockers, and therapeutics

contacts: Dr. Nancy Miller
301/402-0121 (vaccines)
Dr. Roberta Black
301/496-8197 (therapeutics,
transmission blockers)

NIAID HIV/AIDS Research Agenda

contact: Ms. Rona Schmutter
301/496-0545

Stored research samples and selected data are available from the following longitudinal cohort and observational studies, and therapeutic and vaccine clinical trials.

Multicenter AIDS Cohort Study and San Francisco Men's Health Study

contact: Dr. Lewis Schragar
301/402-2305

Women's Interagency Health Study

contact: Dr. Paolo Miotti
301/496-9176

Women's and Infants Transmission Study

contact: Dr. Mary Glenn Fowler
301/496-6178

AIDS Vaccine Evaluation Group

contact: Dr. Patricia Fast
301/496-8200

AIDS Clinical Trials Groups

contact: Dr. William Duncan
301/496-8210

Terry Bein Community Programs for Clinical Research on AIDS

contact: Ms. Pamela Scanlon
301/496-0701

DIVISION OF ALLERGY, IMMUNOLOGY, AND TRANSPLANTATION

DAIT supports studies of the immune system in health and the pathogenesis, diagnosis, prevention, and treatment of disease caused by immune dysfunction.

Asthma, Allergy, and Inflammation Branch

Diseases

asthma	rhinitis
atopic dermatitis	sepsis
hypersensitivity reactions	sinusitis
	urticaria

Research areas

molecular basis of hypersensitivity
basic studies of asthma and allergy mechanisms
new therapies for asthma and allergies
epidemiology and prevention
phagocyte biology
mechanisms of host defense

Clinical Immunology Branch

Diseases

autoimmune diseases
inborn and acquired immune deficiencies

Research areas

basic research of disease mechanisms
immunotherapy of disease processes
disorders mediated by lymphocyte products
enhancement of vaccine effectiveness in neonates
mucosal immunity
macrophage immunology

Genetics and Transplantation Branch

Research areas

identification and characterization of immune regulation genes and use of this knowledge to potentiate or inhibit immune responses
development of animal models of human diseases
manipulation of the immune response to enhance vaccine efficacy and long-term graft survival
application of knowledge about the regulation of immune response genes to problems of immune dysfunction, whether native or in transplantation
clinical trials of new methods to decrease transplant rejection including methods to induce donor-specific tolerance

Basic Immunology Branch

Research areas

origin, maturation, and interactions of immune cells
immune cell receptor, ligand, and cytokine biology
molecular basis of activation, antigen recognition, tolerance, and immune response regulation
hematopoiesis and stem cell biology
basic immunology of vaccines

Office of Epidemiology and Clinical Trials

Provides in-house expertise on methodologies to design, manage, and analyze clinical research and, through grants, supports epidemiologic research of the etiology, prevention, and treatment of asthma, allergy, and autoimmune diseases.

SPECIAL RESOURCES

**American Type Culture Collection
Transgenic and Knockout Mouse Repository**

contact: Dr. Helen Quill
301/496-7551

DIVISION OF MICROBIOLOGY AND INFECTIOUS DISEASES

DMID supports research to control diseases caused by all infectious agents except HIV through basic investigation of microbial physiology and antigenic structure, pathogenesis, clinical trials of drugs and vaccines, and epidemiologic studies. Of particular interest are emerging and reemerging diseases.

Bacteriology and Mycology Branch

Bacterial diseases

actinomycete infections	septic shock
enterococcal infections	staphylococcal infections
legionellosis	urinary tract infections
Lyme disease	vector-borne bacterial infections
nosocomial infections	zoonotic bacterial infections
plague	
Rickettsial diseases (including <i>Coxiella</i> , <i>Ehrlichia</i> , and <i>Rickettsia</i>)	

Fungi and fungal diseases

aspergillosis	histoplasmosis
blastomycosis	<i>Pneumocystis carinii</i>
candidiasis	other primary and opportunistic fungal infections
coccidioidomycosis	
cryptococcosis	

Research areas

antibacterial and antifungal drug resistance	medical bacteriology and mycology
host-pathogen interactions	microbial structure and function
genetics, molecular and cell biology	development of vaccines, drugs, and diagnostics
	clinical trials of antifungal agents

SPECIAL RESOURCE

NIAID Mycoses Study Group

contact: Dr. Stephen Heyse
301/496-7728

Biometry Branch

Provides consultation on the design, conduct, and reporting of clinical, population, and laboratory investigations of infectious diseases; analyzes and interprets research data; researches statistical methods; develops computer software to analyze data; provides services and consultation for computer programming, data management, and study coordination; and serves on clinical trial data safety and monitoring boards.

Research areas

design and analysis of vaccine efficacy studies
design of equivalence/similarity trials

Clinical and Regulatory Affairs Branch

Prepares investigational new drug applications for drugs and vaccines developed by DMID contracts and the NIAID Division of Intramural Research and fulfills regulatory requirements of the FDA for all contract-supported DMID clinical studies.

DMID SPECIAL RESOURCES

Vaccine and Treatment Evaluation Units

Phase I, II, and III evaluation of experimental vaccines and therapeutics
developed by investigators in academia, industry, and government

Limited resources for pilot lot production
of candidate vaccines under good manufacturing practices

contact: Dr. Regina Rabinovich
301/402-2126

Enteric and Hepatic Diseases Branch

Diseases and organisms

<i>Campylobacter</i>	<i>Listeria</i>
<i>Clostridium</i>	rotavirus
diarrhea	<i>Salmonella</i>
<i>Escherichia coli</i>	<i>Shigella</i>
gastroduodenal disease, ulcers	<i>Vibrio cholerae</i>
gastroenteritis	viral hepatitis
<i>Helicobacter pylori</i>	<i>Yersinia</i>
hepatitis A, B, C, D, E, G, new agents	

Research areas

immunology of infectious diseases including
protective immune responses and immuno-
pathogenesis in animal models and humans

vaccine research and development

development of adjuvants and vaccine vectors

identification of new drug targets

immunotherapeutic drug discovery and
development

epidemiology and transmission

basic virology; bacteriology; natural history

SPECIAL RESOURCES

Woodchuck animal model

for hepatitis B and D infection and disease
including antiviral studies

***In vitro* drug screening**

for activity against hepatitis B

contact: Dr. Christopher Tseng
301/496-7453

Natural history studies

contact: Dr. Leslye D. Johnson
301/496-7051

Parasitology and International Programs Branch

Diseases and organisms

protozoal infections

amebiasis

leishmaniasis

malaria

trypanosomiasis

others (e.g., opportunistic and enteric
pathogens)

helminth infections

cysticercosis

filariasis

schistosomiasis

others (e.g., roundworms, tapeworms,
and flukes)

Research areas

parasite biology (genetics, physiology, and
biochemistry)

protective immunity, immunopathogenesis, evasion
of host responses

clinical and epidemiologic studies of the natural
history of tropical and parasitic diseases

research and development of vaccines, drugs,
immunotherapeutics, and diagnostics

vector biology and control; mechanisms of
pathogen transmission

SPECIAL RESOURCES

Schistosome-infected snails and mammals

Filariasis repository

contact: Ms. Mitzi Sereno
301/496-2544

Respiratory Diseases Branch

Diseases and organisms

viral respiratory diseases, including

influenza
parainfluenza viruses
respiratory syncytial virus

bacterial respiratory diseases, including

Group A and B streptococcal infections
meningitis, including *Hemophilus influenzae*
pertussis
Pseudomonas aeruginosa infections
pneumonia
mycoplasma

mycobacterial diseases

leprosy
tuberculosis

Research areas

research and development of drugs, diagnostics,
and vaccines
clinical and epidemiologic studies
molecular genetics
structure and function
immune responses

SPECIAL RESOURCES

Purified leprosy bacilli and mycobacteria

Mycobacterial derivatives: purified protein,
recombinant antigens, complex
carbohydrates, lipids, and nucleic acids

contact: Dr. Ann Ginsberg
301/496-5305

Sexually Transmitted Diseases Branch

Diseases and organisms

adverse outcomes of pregnancy
bacterial vaginosis
chancroid
chlamydial infection
genital herpes
gonorrhea
HPV infection
pelvic inflammatory disease
syphilis
trichomoniasis

Research areas

development of diagnostics, drugs, topical
microbicides, and vaccines
role of STDs in HIV transmission
role of HIV in altering STD natural history
molecular immunology
epidemiologic and behavioral research
adolescents and STDs
STDs and infertility
STDs and adverse outcomes of pregnancy
STDs and reproductive tract cancer
other chronic sequelae of STDs

Virology Branch

Diseases and organisms

acute viral infections and zoonoses, including

measles	other arthropod-borne viral diseases
rubella	hemorrhagic fevers
polio	rabies
dengue	

persisting viral diseases and viruses, including

herpesviruses

adenoviruses

coronaviruses

parvoviruses

chronic fatigue syndrome

Research areas

mechanisms of replication, permissiveness,
persistence, and latency

vaccines and vectors

genetics and gene regulation

emergence of viral disease

epidemiology and viral evolution

structure and function of viruses and viral proteins

molecularly targeted approaches to identify and
characterize antiviral targets and agents

chemical design and synthesis of novel antiviral agents

in vitro screening and evaluation of antiviral activity

preclinical therapeutic (and some prophylactic)
evaluations of human viruses in animal models

clinical trials of therapies for viral infections, excluding
hepatitis, AIDS, and respiratory infections

SPECIAL RESOURCES

***In vitro* screening and animal model
research programs**

evaluate the antiviral activity of
experimental agents supplied by academic,
industrial, and government investigators

contact: Dr. Christopher Tseng
301/496-7453

Reagent Repository

World Health Organization interferon
reference standards

antisera against various viruses, e.g.,
arboviruses and influenza, and mycoplasma

contact: Ms. Thelma Gaither
301/496-7453

Collaborative Antiviral Clinical Studies

contact: Dr. Leigh Sawyer
301/496-7453

DIVISION OF EXTRAMURAL ACTIVITIES

DEA manages and provides policy direction for grants, contracts, training awards, and the Institute's Advisory Council and conducts scientific review for various types of applications, including those responding to Institute initiatives.

Grants Management Branch

Main functions

business administration of grants
review of grant budgets
ensuring compliance with grant policies
ensuring that all reports and assurances are in the grant file
negotiating the grant award with applicants
preparing notices of grant awards

Contact for

existing and new policies for grants administration
how to present the budget in an application
business-type question, e.g. what costs are allowable
what actions are allowable for your grant
which actions need approval and from whom

Contract Management Branch

Main functions

negotiation of contracts with offerors
selecting offeror based on peer review results
performing day to day administration of contracts

Contact for

information on how to submit a successful proposal
technical, business, and cost-related questions
questions about the Federal Acquisition Regulations and other contract rules and procedures
what changes are allowable
procedures for obtaining approval for travel or equipment
a change in the scope of the research

Scientific Review Program

Main functions

oversight of the peer review of applications that address NIAID-specific needs (program projects [P], cooperative agreements [U], training, [T] and research career [K] grants, and applications responding to NIAID-initiated RFAs and RFPs
management of three chartered review committees and special emphasis panels
helping applicants with issues related to applying for the grant types stated above

Contact for

information on how to submit a successful grant application or contract proposal
insights into the peer review process and plans for specific review meetings
questions about the assignment or scheduling of applications for review
advice on applying for the grant types listed above, including special review criteria
requirements of NIAID initiatives (PAs, RFAs, RFPs)
advice on NIH policy requirements (e.g., gender and minority representation in clinical trials, protection of human and animal subjects, training in the responsible conduct of research)

Office of the Director

Office of Training and Manpower Development

Main functions

management of training and career award portfolio
advising NIAID management on policy for training
and manpower issues
evaluating the effects of policies on training
programs

Committee Management Office

Main functions

oversight of the legal and policy requirements for
NIAID's chartered committees, including
NIAID's advisory Council, Board of Scientific
Counselors, Special Emphasis Panels, and three
review committees.

Office of Program Coordination and Operations

Main functions

developing management systems for initiatives
providing guidance on the SBIR and STTR
programs
coordinating collaborations and interactions
within NIH
evaluating the effects of policy on grant and
contract programs
recommending policy changes
answering policy questions on initiatives
resolving application transfer to or from another
institute
advising on funding mechanisms

NIAID Council News and Extramural Web site

Main functions

all phases of production of NIAID Council News
maintenance of the Council News Extramural
Information Center on the Worldwide Web
at <http://www.niaid.nih.gov/ncn/main.htm>